

133-02 US SEQ LIST 20nov2003.ST25.txt
SEQUENCE LISTING

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<120> PLASTIC AND ELASTIC PROTEIN COPOLYMERS

<130> 133-02 US

<150> US 60/428,438

<151> 2002-11-22

<150> CA 2,417,634

<151> 2003-01-29

<150> JP 2003-98691

<151> 2003-04-01

<150> AU 2003236491

<151> 2003-08-27

<160> 68

<170> PatentIn version 3.2

<210> 1

<211> 4

<212> PRT

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<220>

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<400> 1

Val Pro Gly Gly

1

<210> 2

<211> 5

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<213> Artificial

<220>

<223> Synthetic construct

<400> 2

Val Pro Gly Val Gly

1

5

<210> 3

<211> 6

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct

<400> 3

Ala Pro Gly Val Gly Val
1 5

<210> 4

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct

<220>

<221> REPEAT

<222> (2)..(6)

<223> Repeat residues 2 to 6; total of 19 repeat units.

G-(VPGVG)19-VPGV

<400> 4

Gly Val Pro Gly Val Gly Val Pro Gly Val
1 5 10

<210> 5

<211> 5

<212> PRT

<213> Artificial

<220>

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<400> 5

Val Pro Ala Val Gly
1 5

<210> 6

<211> 5

<212> PRT

<213> Artificial

<220>

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<400> 6

Ile Pro Ala Val Gly
1 5

<210> 7

<211> 5

<212> PRT
<213> Artificial

<220>
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<400> 7

Val Pro Asn Val Gly
1 5

<210> 8
<211> 25
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 8

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly
20 25

<210> 9
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<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<220>
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<222> (1)..(25)
<223> [VPAVG(IPAVG)4]n

<400> 9

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly
20 25

<210> 10
<211> 25
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

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<220>
 <221> REPEAT
 <222> (1)..(25)
 <223> [(IPAVG)4(VPAVG)]n

<400> 10

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly
 20 25

<210> 11
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 11

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly
 20 25

<210> 12
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 12

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly
 20 25

<210> 13
 <211> 5
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 13

Val Pro Gly Glu Gly
 1 5

<210> 14
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 14

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
 20 25

<210> 15
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly
 20 25

<210> 16
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<220>
 <221> REPEAT
 <222> (1)..(25)
 <223> [(VPGEG)(VPGVG)4]m;
 alternatively [VPGEGVPGVG VPGVGVPVG VPGVG]m

<400> 16

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
 20 25

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<210> 17
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<220>
 <221> REPEAT
 <222> (1)..(25)
 <223> [VPGVGVPGVG VPGVGVPGVG VPGEG]m

<400> 17

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly
 20 25

<210> 18
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 18

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
 20 25

<210> 19
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<220>
 <221> REPEAT
 <222> (1)..(25)
 <223> [(VPGVG)2 VPGEG (VPGVG)2]m

<400> 19

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
20 25

<210> 20
<211> 25
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<220>
<221> REPEAT
<222> (1)..(25)
<223> Repeat [VPGVGVPGIG VPGVGVPGIG VPGVG] for a total of 19 units
alternatively [VPGVG(VPGIGVPGVG)2]19

<400> 20

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val
1 5 10 15

Pro Gly Ile Gly Val Pro Gly Val Gly
20 25

<210> 21
<211> 485
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 21

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val
1 5 10 15

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro
20 25 30

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly
35 40 45

Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val
85 90 95

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Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
100 105 110

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val
130 135 140

Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
145 150 155 160

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val
165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro
180 185 190

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly
195 200 205

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile
210 215 220

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly
225 230 235 240

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val
245 250 255

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro
260 265 270

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
275 280 285

Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly
305 310 315 320

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
325 330 335

Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro
340 345 350

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Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly
355 360 365

val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly val
370 375 380

Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly Ile Gly
385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile Gly val
405 410 415

Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro
420 425 430

Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly val Pro Gly
435 440 445

Ile Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Ile
450 455 460

Gly val Pro Gly val Gly val Pro Gly Ile Gly val Pro Gly val Gly
465 470 475 480

val Pro Gly val Gly
485

<210> 22
<211> 6
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<400> 22
ctcttc

6

<210> 23
<211> 760
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<400> 23

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
1 5 10 15

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Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
20 25 30

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
35 40 45

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
50 55 60

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
65 70 75 80

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
85 90 95

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
100 105 110

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
115 120 125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
145 150 155 160

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
165 170 175

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
180 185 190

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
195 200 205

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val
210 215 220

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
225 230 235 240

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro
260 265 270

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Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
275 280 285

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
305 310 315 320

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
325 330 335

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
340 345 350

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
355 360 365

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
370 375 380

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
405 410 415

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
435 440 445

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
450 455 460

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
485 490 495

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
500 505 510

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
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515

520

525

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
580 585 590

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
625 630 635 640

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
675 680 685

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
740 745 750

Gly Val Gly Val Pro Gly Val Gly
755 760

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<210> 24
 <211> 960
 <212> PRT
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<220>
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<400> 24

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 1 5 10 15

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 20 25 30

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 35 40 45

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 50 55 60

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
 65 70 75 80

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
 85 90 95

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 100 105 110

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 115 120 125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
 130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
 145 150 155 160

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
 165 170 175

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 180 185 190

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 195 200 205

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val
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210

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
225 230 235 240

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
260 265 270

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
275 280 285

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
325 330 335

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
340 345 350

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
355 360 365

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
385 390 395 400

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
405 410 415

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
435 440 445

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
450 455 460

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Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
485 490 495

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
500 505 510

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
515 520 525

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
530 535 540

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
545 550 555 560

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
565 570 575

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
580 585 590

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
595 600 605

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val
610 615 620

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
625 630 635 640

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val
645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro
660 665 670

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
675 680 685

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
705 710 715 720

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
805 810 815

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
835 840 845

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
850 855 860

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
885 890 895

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
900 905 910

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
915 920 925

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
945 950 955 960

<210> 25
<211> 1210

<212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<400> 25

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 35 40 45

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 50 55 60

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
 85 90 95

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 100 105 110

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
 115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
 130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
 165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 180 185 190

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
 210 215 220

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Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
 225 230 235 240

val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val
 245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro
 260 265 270

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 275 280 285

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
 290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
 305 310 315 320

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 325 330 335

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
 340 345 350

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 355 360 365

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 370 375 380

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
 385 390 395 400

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 405 410 415

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 435 440 445

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 450 455 460

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
 465 470 475 480

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
485 490 495

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
500 505 510

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
515 520 525

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
580 585 590

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
625 630 635 640

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
675 680 685

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
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725

730

735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
 740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
 785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 805 810 815

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 835 840 845

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 850 855 860

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
 885 890 895

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 900 905 910

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
 915 920 925

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
 930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
 965 970 975

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 980 985 990

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1010 1015 1020

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1025 1030 1035

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1040 1045 1050

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1055 1060 1065

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1085 1090 1095

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1100 1105 1110

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1115 1120 1125

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1130 1135 1140

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1145 1150 1155

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1160 1165 1170

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1175 1180 1185

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1190 1195 1200

val Gly val Pro Gly val Gly
 1205 1210

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<210> 26
 <211> 35
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<220>
 <221> REPEAT
 <222> (6)..(30)
 <223> Repeat residues 6 to 30; total of 30 repeat units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]30 VPGVG

<400> 26

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 20 25 30

Gly Val Gly
 35

<210> 27
 <211> 35
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct

<220>
 <221> REPEAT
 <222> (6)..(30)
 <223> Repeat residues 6 to 30; total of 38 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]38 VPGVG

<400> 27

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 20 25 30

Gly Val Gly
 35

<210> 28
 <211> 35

<212> PRT
<213> Artificial

<220>
<223> Synthetic construct

<220>
<221> REPEAT
<222> (6)..(30)
<223> Repeat residues 6 to 30; total of 48 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]48 VPGVG

<400> 28

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
20 25 30

Gly Val Gly
35

<210> 29
<211> 35
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (6)..(30)
<223> Repeat residues 6 to 30; total of 12 units.

VPGVG [(VPGVG)(VPNVG)4]12 VPGVG

<400> 29

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro
20 25 30

Gly Val Gly
35

<210> 30
<211> 310
<212> PRT
<213> Artificial

<220>

<223> Synthetic construct.

<400> 30

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro
20 25 30

Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn
35 40 45

Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val
50 55 60

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly
65 70 75 80

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val
85 90 95

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro
100 105 110

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val
130 135 140

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly
145 150 155 160

Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val
165 170 175

Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro
180 185 190

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly
195 200 205

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val
210 215 220

Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly
225 230 235 240

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Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val
245 250 255

Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro
260 265 270

Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn
275 280 285

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val
290 295 300

Gly Val Pro Gly Val Gly
305 310

<210> 31
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (1)..(12)

<400> 31

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
1 5 10

<210> 32
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (6)..(17)
<223> Repeat residues 6 to 17; total of 2 x 23 = 46 units.

VPGVG [(APGGVPGGAPGG)2]23 VPGVG

<400> 32

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
1 5 10 15

Gly Val Pro Gly Val Gly
20

<210> 33
<211> 562
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 33

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
Page 26

195

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
225 230 235 240

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
485 490 495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
500 505 510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
515 520 525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
530 535 540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
545 550 555 560

Val Gly

<210> 34
<211> 22
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (6)..(17)
<223> Repeat residues 6 to 17; total of 2 x 30 = 60 units.

VPGVG [(APGGVPGGAPGG)2]30 VPGVG

<400> 34

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
1 5 10 15

Gly Val Pro Gly Val Gly
20

<210> 35
<211> 730
<212> PRT
<213> Artificial

<220>

<223> Synthetic construct.

<400> 35

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
195 200 205

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
225 230 235 240

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
Page 30

485

490

495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
 500 505 510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
 515 520 525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
 530 535 540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
 545 550 555 560

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
 565 570 575

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
 580 585 590

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
 595 600 605

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
 610 615 620

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
 625 630 635 640

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
 645 650 655

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
 660 665 670

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly
 675 680 685

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly
 690 695 700

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly
 705 710 715 720

Gly Ala Pro Gly Gly Val Pro Gly Val Gly
 725 730

<210> 36
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct.

<400> 36

Ile Pro Gly Val Gly Val Pro Gly Val Gly
 1 5 10

<210> 37
 <211> 25
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct.

<220>
 <221> REPEAT
 <222> (1)..(25)

<400> 37

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
 20 25

<210> 38
 <211> 475
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct.

<400> 38

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro
 20 25 30

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly
 35 40 45

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val
 50 55 60

Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
65 70 75 80

Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val
85 90 95

Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro
100 105 110

Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly
115 120 125

val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val
130 135 140

Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly
145 150 155 160

val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly val
165 170 175

Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly
195 200 205

val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val
210 215 220

Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly val Gly
225 230 235 240

Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly Ile
245 250 255

Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro
260 265 270

Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly val Pro Gly
275 280 285

val Gly Ile Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
290 295 300

Gly Ile Pro Gly val Gly val Pro Gly val Gly Ile Pro Gly val Gly
305 310 315 320

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val
325 330 335

Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
340 345 350

Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly
355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val
370 375 380

Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly
385 390 395 400

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro
420 425 430

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly
435 440 445

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val
450 455 460

Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly
465 470 475

<210> 39
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct

<220>
<221> misc_feature
<222> (7)..(10)
<223> n is a, c, g, or t

<400> 39
ctcttcnnnn

10

<210> 40
<211> 25
<212> PRT
<213> Artificial

133-02 US SEQ LIST 20nov2003.ST25.txt

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (1)..(25)

<400> 40

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly
20 25

<210> 41
<211> 750
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 41

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
35 40 45

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
85 90 95

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
130 135 140

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
145 150 155 160

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
165 170 175

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
195 200 205

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
210 215 220

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
225 230 235 240

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
260 265 270

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
275 280 285

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
305 310 315 320

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
325 330 335

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
340 345 350

Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
355 360 365

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val
370 375 380

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
Page 36

385

390

395

400

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
465 470 475 480

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
485 490 495

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
500 505 510

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
545 550 555 560

-Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
625 630 635 640

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
660 665 670

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
675 680 685

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
705 710 715 720

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
725 730 735

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
740 745 750

<210> 42
<211> 1200
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 42

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20 25 30

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
35 40 45

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
50 55 60

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
65 70 75 80

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
85 90 95

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
Page 38

100

105

110

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
115 120 125

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
130 135 140

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
145 150 155 160

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
165 170 175

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
180 185 190

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
195 200 205

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
210 215 220

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
225 230 235 240

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
245 250 255

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
260 265 270

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
275 280 285

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
290 295 300

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
305 310 315 320

val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val
325 330 335

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
340 345 350

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
 370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 385 390 395 400

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
 420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
 450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
 465 470 475 480

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 485 490 495

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
 500 505 510

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 515 520 525

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
 545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 595 600 605

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
610 615 620

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
805 810 815

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
850 855 860

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
865 870 875 880

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
885 890 895

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
900 905 910

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915 920 925

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
930 935 940

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
945 950 955 960

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
965 970 975

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
980 985 990

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1010 1015 1020

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
1025 1030 1035

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1040 1045 1050

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly -
1055 1060 1065

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1085 1090 1095

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
Page 42

1100

1105

1110

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1115 1120 1125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1130 1135 1140

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 1145 1150 1155

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1160 1165 1170

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
 1175 1180 1185

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 1190 1195 1200

<210> 43
 <211> 528
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct.

<400> 43

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 1 5 10 15

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 20 25 30

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 35 40 45

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 50 55 60

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 65 70 75 80

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 85 90 95

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 100 105 110

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 115 120 125

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 130 135 140

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 145 150 155 160

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 165 170 175

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 180 185 190

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 195 200 205

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 210 215 220

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 225 230 235 240

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 245 250 255

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 260 265 270

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 275 280 285

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 290 295 300

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 305 310 315 320

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
 325 330 335

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
 340 345 350

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
 Page 44

355

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
370 375 380

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
385 390 395 400

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
405 410 415

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
420 425 430

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
435 440 445

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
450 455 460

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
465 470 475 480

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly
485 490 495

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly
500 505 510

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly
515 520 525

<210> 44
<211> 5
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> REPEAT
<222> (1)..(5)
<223> [(VPGMG)5]x; wherein x is from about 10 to about 100

<400> 44

Val Pro Gly Met Gly
1 5

133-02 US SEQ LIST 20nov2003.ST25.txt

```

<210> 45
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 45
aagcttgaag acgttccagg tgcaggcgta ccgggtgctg gcgttccggg tgaagggtgtt    60
ccaggcgcag gtgtaccggg tgcgggtgtt ccaagagacg ggatcc                      106

<210> 46
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 46
aagcttgaag acgttccagg tttcggcatc ccgggtgtag gtatcccagg cggttggtatt    60
ccgggtgtag gcatccctgg cggttgcggt ccaagagacg ggatcc                      106

<210> 47
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 47
aagcttgaag acattccagc tgttggtatc ccggctgttg gtatcccagc tgttggcatt    60
ccggctgtag gtatcccggc tgttggtatt ccaagagacg ggatcc                      106

<210> 48
<211> 57
<212> DNA
<213> Artificial

<220>
<223> Synthetic construct.

<400> 48
ccatggttcc agagtcttca ggtaccgaag acgttccagg tgtaggctaa taagctt    57

<210> 49
<211> 400
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 49

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133-02 US SEQ LIST 20nov2003.ST25.txt

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
35 40 45

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
50 55 60

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
85 90 95

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
130 135 140

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
180 185 190

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
210 215 220

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
225 230 235 240

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro
260 265 270

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
305 310 315 320

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
355 360 365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
385 390 395 400

<210> 50
<211> 410
<212> PRT
<213> Artificial

<220>
<223> synthetic construct.

<400> 50

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
50 55 60

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly
405 410

<210> 51
<211> 821
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<220>
<221> MISC_FEATURE
<222> (411)..(411)
<223> X at position 411 represents an optionally selected midblock
structure.

<400> 51

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
325 330 335

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Xaa Val Pro Ala Val Gly
405 410 415

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
420 425 430

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
435 440 445

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
450 455 460

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
465 470 475 480

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
485 490 495

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
500 505 510

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
515 520 525

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
530 535 540

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
545 550 555 560

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
565 570 575

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
580 585 590

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
595 600 605

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
610 615 620

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
625 630 635 640

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
645 650 655

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
660 665 670

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro
675 680 685

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
690 695 700

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val
705 710 715 720

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
725 730 735

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
740 745 750

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro
755 760 765

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
770 775 780

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
785 790 795 800

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
805 810 815

Ile Pro Ala Val Gly
820

<211> 1580
 <212> PRT
 <213> Artificial

<220>
 <223> Synthetic construct.

<400> 52

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro
 20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
 35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
 50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
 65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
 85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
 100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
 115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
 130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
 145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
 210 215 220

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
Page 55

465

470

475

480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 485 490 495

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
 500 505 510

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 515 520 525

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 530 535 540

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
 545 550 555 560

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 565 570 575

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 580 585 590

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 595 600 605

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 610 615 620

Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly
 625 630 635 640

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val
 645 650 655

Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
 660 665 670

Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 675 680 685

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu
 690 695 700

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly
 705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
805 810 815

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val
850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro
900 905 910

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
915 920 925

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly
945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
965 970 975

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly Val Pro
 980 985 990

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1010 1015 1020

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1025 1030 1035

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1040 1045 1050

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1055 1060 1065

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1070 1075 1080

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1085 1090 1095

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1100 1105 1110

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1115 1120 1125

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1130 1135 1140

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1145 1150 1155

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Ala
 1160 1165 1170

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
 1175 1180 1185

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala
 1190 1195 1200

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
 1205 1210 1215

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1220 1225 1230

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
1235 1240 1245

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1250 1255 1260

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
1265 1270 1275

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1280 1285 1290

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1295 1300 1305

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
1310 1315 1320

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1325 1330 1335

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
1340 1345 1350

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1355 1360 1365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1370 1375 1380

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
1385 1390 1395

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1400 1405 1410

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
1415 1420 1425

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
1430 1435 1440

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
Page 59

1445

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala
1460 1465 1470

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
1475 1480 1485

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala
1490 1495 1500

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
1505 1510 1515

val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
1520 1525 1530

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala
1535 1540 1545

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
1550 1555 1560

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala
1565 1570 1575

val Gly
1580

<210> 53
<211> 2030
<212> PRT
<213> Artificial

<220>
<223> Synthetic construct.

<400> 53

val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile
1 5 10 15

Pro Ala val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro
20 25 30

Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
35 40 45

val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val
50 55 60

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
Page 61

133-02 US SEQ LIST 20nov2003.ST25.txt
 305 310 315 320

Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile
 325 330 335

Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly val Pro
 340 345 350

Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
 355 360 365

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val
 370 375 380

Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly
 385 390 395 400

val Pro Ala val Gly Ile Pro Ala val Gly val Pro Gly val Gly val
 405 410 415

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro
 420 425 430

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 435 440 445

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
 450 455 460

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
 465 470 475 480

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
 485 490 495

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
 500 505 510

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 515 520 525

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
 530 535 540

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
 545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 610 615 620

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
 645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
 675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
 690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
 725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
 770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 805 810 815

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro
820 825 830

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
835 840 845

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val
850 855 860

Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly
865 870 875 880

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
885 890 895

Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro
900 905 910

Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
915 920 925

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val
930 935 940

Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly val Gly
945 950 955 960

val Pro Gly val Gly val Pro Gly val Gly val Pro Gly val Gly val
965 970 975

Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro
980 985 990

Gly val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
995 1000 1005

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1010 1015 1020

val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
1025 1030 1035

val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1040 1045 1050

Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
1055 1060 1065

133-02 US SEQ LIST 20nov2003.ST25.txt

val Gly val Pro Gly val Gly val Pro Gly Glu Gly val Pro Gly
 1070 1075 1080
 val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1085 1090 1095
 val Gly val Pro Gly Glu Gly val Pro Gly val Gly val Pro Gly
 1100 1105 1110
 val Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1115 1120 1125
 Glu Gly val Pro Gly val Gly val Pro Gly val Gly val Pro Gly
 1130 1135 1140
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 Page 65

1295

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala
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675

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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<400> 57

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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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Page 81

515

520

525

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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
1475 1480 1485

val Gly Ile Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala
Page 85

1490

val Gly Ile Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
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Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
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Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly
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133-02 US SEQ LIST 20nov2003.ST25.txt

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195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
210 215 220

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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
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Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
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133-02 US SEQ LIST 20nov2003.ST25.txt

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133-02 US SEQ LIST 20nov2003.ST25.txt

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785 790 795 800

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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile
Page 91

1145

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 35 40 45

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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile
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Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
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Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val
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Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val
 Page 93

210

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly
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Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile
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Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val
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133-02 US SEQ LIST 20nov2003.ST25.txt

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755 760 765

val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro Ala val
770 775 780

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785 790 795 800

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Pro Ala val Gly val Pro Ala val Gly Ile Pro Ala val Gly Ile Pro
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133-02 US SEQ LIST 20nov2003.ST25.txt

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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly
515 520 525

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val
Page 99

530

535

540

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Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro
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133-02 US SEQ LIST 20nov2003.ST25.txt

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